

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/001520

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: C22B 3/08, C22B 15/00, B01J 3/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

REFER ELECTRONIC DATA BASE CONSULTED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

DWPI - IPC: C22B 3/08, C22B 15/00, B01J 3/04 and LEACH+, FERRIC, SULPHURIC, SULFURIC, CHALCOIT+, COPPER, CU

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	AU 769984 B (PASMINCO AUSTRALIA LTD) 12 February 2004 whole document	1-18
A	US 6319389 B (FOUNTAIN et al.) 20 November 2001 whole document	1-18
A	WO 2000/006784 A (WESTERN METAL RESOURCES LTD) 10 February 2000 whole document	1-18
A	GB 2020261 A (NEW BRUNSWICK RESEARCH AND PRODUCTIVITY COUNCIL) 14 November 1979 whole document	1-18
A	US 5993635 A (HOURN et al.) 30 November 1999 whole document	1-18



Further documents are listed in the continuation of Box C



See patent family annex

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
9 December 2004

Date of mailing of the international search report
15 DEC 2004

Name and mailing address of the ISA/AU

AUSTRALIAN PATENT OFFICE
PO BOX 200, WODEN ACT 2606, AUSTRALIA
E-mail address: pct@ipaaustralia.gov.au
Facsimile No. (02) 6285 3929

Authorized officer

B. PREMARATNE

Telephone No : (02) 6283 2407

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001520

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member				
AU	72233/00	NONE					
US	6319389	AU	71731/00	CA	2326081	ZA	200006842
WO	0006784	AU	47635/99	CA	2336284	ES	2206004
		US	6537440				
GB	2020261	AU	46084/79	BE	876054	CA	1121605
		CA	1203083	DE	2914823	ES	8504950
		FI	791433	FR	2424962	JP	54147102
		PT	77768	US	4224122	US	4317803
		US	4415540	US	4619814	ZA	7901583
US	5993635	AU	49331/96	BG	101980	CA	2215963
		EP	0815270	IN	187985	NZ	303107
		PL	322364	WO	9629439	ZA	9602223
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.							
END OF ANNEX							

BEST AVAILABLE COPY